

# 4390

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: SW. Alaska

11-5613

DESCRIPTIVE REPORT.

Hydrog. Sheet No. 4390

LOCALITY:

Alaska Peninsula  
Pavlof Bay -

Arch. Pt. to Black Pt

1924

CHIEF OF PARTY:

R. R. Lukens

# 4390

DESCRIPTIVE REPORT.

Hydrographic Sheet H

ARCH POINT TO BLACK POINT

S.W. ALASKA.--

Str. PIONEER

E.R. Lukens, Comdg.

1924.

LIMITS This sheet which is on the scale of 1:20,000 embraces the inshore hydrography from the vicinity of Arch Pt to Black Pt. at the entrance to Pavlof Bay.

CHARACTER OF BOTTOM Deep water extends close up to the beach along the most of this stretch of shore line, the exception being between DUNE and BLACK ROCK, where a narrow shelf makes out, and affords a good anchorage in ordinary weather.

METHODS The hydrography was done from the motor sailer in charge of Lt. Itter. Hand lead was used in depths under 12 fathoms, while in greater depths, a hand sounding machine was used.

TOPOGRAPHY Some big blunders were made by the topographer, Mr. Nyman on this section, and it was necessary to rerun a portion of it. These errors in signals confused the launch party, and in the final plotting, some of the lines are not as well spaced as they should be.

SHORE LINE The shoreline is all sandy, and there are many lagoons behind it. There are vast fields of ashes and cinders from Pavlof Volcano, and it is surprising that deep water extends so close to the shore.

LANDMARKS It is recommended that the tripods marking DUNE \* BLUFF and PAV be shown on the chart. These tripods will last for several years, and will assist the navigator when looking for an anchorage along this coast.

TIDES Soundings were reduced from the King Cove Gauge. Subsequent observations showed that there was little difference between this area and King Cove.

BLACK ROCK has been described under other reports. It is black in color and shows well. There is deep water close to all around it. Vessels bound for Pavlof Bay, usually pass between the rock and the shore

*E. R. Lukens.*

STATISTICS SHEET

HYDROGRAPHIC SHEET

J ~~1~~ H

PAVLOF BAY

ARCH POINT TO PAV

Date 1924	Day	Volume	Positions	Soundings	Statute Miles	Vessel
July 26	a	1	171	415	18.7	M.S.1
July 28	b	1	24	49	3.3	M.S.1
July 29	c	1	227	293	17.0	M.S.1
July 30	d	2	135	309	14.2	M.S.1
			447	1066	53.2	

\* Trans. letter does not refer to a "J" sheet  
B.R.

January 23, 1925.

Section of Field Records

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4390

Locality: Pavlof Bay (from Arch Point north) S. W. Alaska

Chief of Party: R. R. Lukens in 1924  
Plane of reference is mean lower low water  
5.6 ft. on tide staff at Kings Cove, Alaska

For reduction of soundings, condition of records satisfactory.  
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks



Chief, Division of Tides and Currents.



Hydrographic Sheet No. 4390.  
Pavlof Bay: S.W. Alaska.

The surveyed area covered by this sheet appears satisfactorily developed and that no additional work is necessary. A few gaps appear but the adjacent lines do not indicate shoaling or danger conditions.

Protracting, by Field Party, generally accurate. The errors found were usually at the beginning and ending at the inshore end of lines, due, probably, by the middle signal being close and covered by the protractor. Positions numbered and lettered only at beginning and ending of lines. Not all as required.


Platting, by Field Party, generally accurate but figures large and cut deep. Curves by Field Party also cut deep.

Records clear and easily interpreted. No boat head by compass, <sup>used</sup> and change in course only recorded at end of lines. Only 8 bottom characteristics recorded in the two volumes.

Shore lines inked in by Field Party poorly done. Had to be corrected for entire length of sheet.

No cross lines run for checks.

John D. Torrey  
March 13/25



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

March 24, 1925.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4390

Pavlof Bay, Alaska Peninsula

Surveyed in 1924

Instructions dated February 8, 1924.

1. The records conform to the requirements of the General Instructions except that there are but 8 bottom characteristics of which only one is at the top of the page.
- ✓ 2. The plan and character of development conform to the requirements of the General Instructions.
- ✓ 3. The plan and extent of development satisfy the specific instructions.
- ~~4. The sounding line crossings are adequate.~~ *No crossings*
- ✓ 5. The information is sufficient for drawing the usual depth curves.
6. The usual field plotting was done by the field party. The plotting was generally accurate but the soundings and sounding lines were too deeply indented in the paper. The shoreline was very carelessly done and most of it had to be erased and corrected.
- ✓ 7. The junction with the adjoining sheet to the eastward is good.
- ✓ 8. There is an 8 fathom spot west of Black Rock on which additional development or dragging should be done. Kelp and moderate depths extend for half a mile off Arch Pt. and additional development would be desirable on this area. Except for these two places the sheet appears to be well developed. *are very good*
9. The character and scope of the surveying ~~is~~ <sup>are</sup> good and field drafting fair.
10. Reviewed by E. P. Ellis, March, 1925.

Chief of Party, R. R. Lukens.

Surveyed by C. J. Itter, Jr.

Protracted and soundings plotted by T.T. Davey.

Verified and inked by J. D. Torrey.

*Approved -*  
*A. J. [signature]*  
*J. D. Torrey*

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4390

DEPARTMENT OF COMMERCE  
U.S. Coast and Geodetic Survey

## HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the office.

U.S. Coast and Geodetic Survey

Register No. (H) 4390

State South West Alaska

General Locality Alaska Peninsula  
~~Pavlov Bay - Gulf~~  
Locality Arch Point to Black Point

Chief of Party R.R. Lukens

Date of Survey 1924

Scale 1: 20,000

Soundings in Fathoms

Plane of Reference Mean Lower Low Water

Protracted by T.T. Davey Soundings in pencil by T.T. Davey

Inked by J. H. Torrey... Verified by J. H. Torrey

Records accompanying sheet (check those forwarded)

Des. Report, ..... Tide books, ..... Marigrams, ... 1. .... Boat sheets

..... 2. .... Sounding books, ..... Wire drag books, ..... Photographs

Data from other sources affecting sheet.....

Remarks: